

mf

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/808,251	03/23/2004	Youji Maruyama	16869G-101200US	4216
	7590 04/11/200 AND TOWNSEND AN	EXAMINER		
TWO EMBAR	CADERO CENTER	CASTRO, ANGEL A		
EIGHTH FLOOR SAN FRANCISCO, CA 94111-3834			ART UNIT	PAPER NUMBER
			2627	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		04/11/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary		Application No.	Applicant(s)			
		10/808,251	MARUYAMA ET AL.			
		Examiner	Art Unit			
•		Angel A. Castro	2627			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. 9 period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ARANDONE.	N. nely filed the mailing date of this communication. D. (35 U.S.C. 8.133)			
Status						
2a)⊠	Responsive to communication(s) filed on <u>22 January 2007</u> . This action is FINAL . 2b) This action is non-final.					
٠,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims	n parto Quayio, 1000 O.D. 11, 40	0.0.213.			
	4) Claim(s) 1-22 is/are pending in the application.					
	 4a) Of the above claim(s) 3,4,7-11,14,15 and 18-22 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 					
· —	6)⊠ Claim(s) <u>1,2,5,6,12,13,16 and 17</u> is/are rejected.					
	Claim(s) is/are objected to.	u.				
	Claim(s) are subject to restriction and/or	s election requirement				
		election requirement.				
	on Papers					
	The specification is objected to by the Examine					
10)[]	The drawing(s) filed on is/are: a) acce					
	Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
3.☐ Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment	(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

Application/Control Number: 10/808,251

Art Unit: 2627

DETAILED ACTION

This Office Action is in response to Amendment filed 1/22/07.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-2, 5-6, 12-13 and 16-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Stoev et al.

Regarding claims 1, 5, 12 and 16, Stoev et al discloses a magnetic head (figure 15) having a write function, comprising:

a lower core 46, 210, including a plurality of layers;

an upper core 644, 640, 630 including a plurality of layers;

a lower core edge layer 210, included in the lower core; and

an upper core edge layer 630, 640, included in the upper core, the lower core edge layer and the upper core edge layer defining a write gap 625 on a side of an air bearing surface;

Application/Control Number: 10/808,251

Art Unit: 2627

wherein the lower core except for the lower core edge layer is recessed from the air bearing surface of the magnetic head, wherein an edge on a side opposite to the air bearing surface of the lower core edge layer is configured to be aligned with an edge on the side opposite to the air bearing surface of the upper core edge layer.

Regarding claims 2 and 13, Stoev et al discloses that a non-magnetic film 615 is formed on the lower core except for the lower core edge layer on a side of the air bearing surface.

Regarding claims 6 and 17, Stoev et al discloses that a patterned magnetic material 210 is formed between the first lower pole piece and the second lower pole piece, and the first lower pole piece is recessed from a facet of the patterned magnetic material on a side of the air bearing surface of the magnetic head (see figure 15).

Response to Arguments

3. Applicant's arguments with respect to claims 1-2, 5-6, 12-13, 16 and 17 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until

Art Unit: 2627

after the end of the THREE-MONTH shortened statutory period, then the shortened statutory

period will expire on the date the advisory action is mailed, and any extension fee pursuant to

37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of

this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angel A. Castro whose telephone number is 571-272-7584. The examiner can normally be reached on Monday through Thursday, 8 AM to 6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa T. Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Angel Castro, Ph.D.